

In the Specification:

Please amend the specification as follows:

Page 1, first paragraph:

Cross-reference to related applications

This application claims priority to Swedish patent application 0203390-0 filed 18 November 2002 and is the national phase under 35 U.S.C. § 371 of PCT/SE2003/001768.

Field of the invention

The present invention relates to a method for conversion of waveguide modes from a mode of type TM_{01} to mode of type TE_{11} for transmission of power within the microwave range. The invention also relates to a mode-converting arrangement for conversion of waveguide modes from a mode of type TM_{01} to mode of type TE_{11} for transmission of power within the microwave range, comprising an incoming waveguide for reception of power of the type TM_{01} , an outgoing waveguide for outputting power of the mode type TE_{11} and a waveguide-mode-converting section arranged between the incoming and outgoing waveguides. In addition, the invention relates to an antenna arrangement with mode converter according to the invention.

Background of the invention

Page 3, third paragraph:

Summary of the invention

The object of the present invention is to achieve a method for conversion of waveguide modes, a mode-converting arrangement, and an antenna arrangement which can cope with high powers and can handle different types of polarization in different variants and which mode-converting arrangement has an essentially symmetrical shape and is relatively simple in its construction.

Page 5, second paragraph:

Brief description of the drawings

The invention will be described below with reference to the attached drawings, in which:

Page 6, second paragraph:

Detailed description of embodiments of the invention

The appearance of the transverse E-fields for the three modes that are principally of relevance for the invention is described schematically, prior to the description below of the mode-converting arrangement. Figures 3a and 3b show the transverse E-fields for two orthogonal TE₁₁ modes.

Figure 3c shows the transverse field for the TM_{01} mode. Figure 3d and Figure 3e show the transverse E-fields for two TE_{21} modes.